

Product datasheet for **SC107202**

FRMD8 (NM_031904) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRMD8 (NM_031904) Human Untagged Clone
Tag:	Tag Free
Symbol:	FRMD8
Synonyms:	FKSG44; iTAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC107202 sequence for NM_031904 edited (data generated by NextGen Sequencing)

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ATGGACGGGACAGAAGGCAGTGCCGGGCAGCCCGCCCCGCTGAGCGATCCCACCGAAGC
AGCGTGTCTCCGTGGGAGCCCGAGCGGCTGACGTGCTGGTATACCTAGCGGATGACACG
GTGGTGCCCTGGCTGTGGAGAACCTGCCCTCGCTCAGTGCCCATGAGCTGCACCGCGT
GTCCCGCAGGTCCTGCAGCTTCCAGACATCGCCCTGGATGTCTTCGCGCTCTGGCTGGTC
TCCCCTGTGCTGGAGGTGCAGCTGAAACCCAAGCACCGCCCTACAAGCTGGGACGCCAG
TGGCCGGAGCTGCTGCTGCGCTTACCAGTGCCCCAGATGATGACGTGGCCATGGATGAG
CCTTTCCTGCAGTTCGAAGGAACGTGTTCTTCCAAAGCGGCGGGAGCTCCAGATCCAT
GACGAGGAGTCTGCGGCTGCTCTATGAGGAGGCCAAGGGCAACGTGCTGGCTGCACGG
TACCCGTGCGACGTGGAGGACTGCGAGGCTCTGGGCGCCCTGGTGTGCCGCTGCAGCTT
GGGCCCTACCAGCCCGCCGGCCGGCAGCCTGCGACCTGAGGGAGAAGCTGGACTCCTTC
CTCCCTGCCACCTCTGTAAGCGGGGCCAGAGTCTTTTGTGCCCTCCGGGGCCGTGGG
GCCAGGGCCGGCCGGGCGAGCAGGGCCTGCTGAACGCCCTACCGCCAGGTGCAGGAGGTC
AGCAGCGACGGCGGGTGCAGGGCCGCCCTGGGCACCCACTACCGCGCCTATCTCCTCAAG
TGCCACGAGCTGCCGTTTTATGGGTGTGCCTTCTCCACGGTGAGGTTGACAAGCCGGCC
CAAGGCTTTTTGCACCGGGTGGGCGCAAGCCAGTTTCTGTGGCCATCAGTCTGGAAGGC
GTGCACGTATCGATAGCAGAGAGAAGCATGTCCTGCTGGGCTGCGCTTCCAGGAGCTG
TCGTGGGACCACCTCCCCGAGGAGGAGGCCATCTTGTGGCTGGAGTTCCAGCGG
GACAGCGAGGGCACACCTGTCAACAAGCTCCTCAAGATCTACTCCAAGCAGGCCGAACTG
ATGAGCAGTCTCATTGAGTACTGCATCGAACTGAGCCAGGTGGCGGAGCCCGCAGGCCCC
CAGGACAGTGCAGTGGCTCGCCCTCGGACCCAGCTCCTCACTGGCTCCTGTTTCAGCGC
CCCAAGCTGCGGAGGCGAGGCGAGTGTGGTGTCCAGCCGGATCCAGCATCTCTCCACCATC
GACTACGTGGAGGACGGCAAGGGGATCAGGCGAGTGAAGCCGAAGCGCACCCACATCCTTC
TTCAGCCGGCAGCTGTCTTGGGCCAGGGGAGCTACACCGTGGTGCAGCCCGGCACAGC
CTGGAGCAGGGCTGA
    
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Clone variation with respect to NM_031904.3
 339 c=>t;1121 c=>t

5' Read Nucleotide Sequence: >OriGene 5' read for NM_031904 unedited

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TCCCCGCCCCGTTGNCGCAAAGGGCGGTAGGCGTGACGGTGGGAGGTCTATATAAGCA
GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA
ATTCGGCACGAGGGCTGCGTCTTAGCGGGAGCCCGAGTGCGGGCGGTGGCGGGCTTGGC
GGCGGGCAGGATTCCAGGCAGGAGCCTTGCCCTCAGGTGGCGGGCTCTGCGACCCTGC
GAGATGGACGGGACAGAAGGCAGTGCCGGGCAGCCCGCCCCGCTGAGCGATCCCACCGA
AGCAGCGTGTCTCCGTGGGAGCCCGAGCGGCTGACGTGCTGGTATACCTAGCGGATGAC
ACGGTGGTGCCCCCTGGCTGTGGAGAACCTGCCCTCGCTCAGTGCCCATGAGCTGCACCGC
GCTGTCCGCGAGGTCTGCAGCTTCCAGACATCGCCCTGGATGTCTTCGCGCTCTGGCTG
GTCTCCCCCTGCTGGAGGTGCAGCTGAAACCCAAGCACCCAGCCCTACAAGCTGGGACGC
CAGTGGCCGGAGCTGCTGCTGCGCTTACCAGTGCCCCAGATGATGACGTGGCCATGGAT
GAGCCTTTCTGCAGTTCGAAGGAACGTGTTCTTCCAAAGCGGCGGGAGCTCCAGATC
CATGACGAGGAGTCTGCGGCTGCTCTATGAGGAGGCCAAGGGCAACGTGCTGGCTGCA
CGGTACCCGTGCGACGTGGAGGACTGCGAGGCTCTGGGCGCCCTGGTGTGCCGCTGCAG
CTTGGGCCCTACAGCCGGCCGGCCGCGAGCCTGCGACCTGAGGGAGAAGCTGGNACTCT
TNCTCCCTGCCACCTCTGTTAGCGGGCCAGAGTCTCTTTGCTGCCCTCGGGCCGCTG
GGCCAGGGCGGGCCCGGGCAGGGCCTGCTGAACGCTACCGCCAAGTGCAGAGTCAGCA
CGAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_031904 unedited TTTAAAACCCCTTTNNTTTTTGTTAGAACTGTTTTTAATAAGTCACATGATACAAAAGAA TGAGAACATTCAAAGAATGAGTAAAATACTGCTTTGTCCCAAAGGACAAGCAGAAAATGT TAAGGCACAACGGATGCTCAGAAAACGTAAGCAGCTGAAGGGAAAAACACATCATCTGTGT TCTTCTTACACACACTCCAACCCATCACACGAACACACCCTCGCCCGCCCATCAGAGA AGAATTCGCCTGGAATCAGCTGGGGCGGTGGCTCACGCCTATAATCCCAGCACTTTGGG AGGTTGAGGCGGCAGATCATGAGGTCAGGAGTTCACGACCAGCCTGACCAACATGGTGA AACCCATCTCTACTAAAAATACAAAAATCAGCGGGCCTGGTGGCATGCACCTGTAATC CCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAGACAGAGGTTGAGTGAGCCGA GATGCGCCACTGCACTCTGCCTGGGCAACAGAGCAAGACTCCGTCTCAAAAAAATAA AAAAATAAAAAAATAAAATCACCTGGAATCAAAGCAGCAGGGACAGCCTGCGCTGGAGC CGCCAGAACAGGCAGGCGGGCAGCTCCGCAAGACCAGCAACTCCAGNACGGGAGACGAG GACTGGCAGCTGACATGACCCCTGTGACCAGGACATTTCAAAGACTGGGGGGCCCTCC CCAAGCCTCTTTCTTTCCGCCATTATTTTAACAAAATTCATGCCTGGCCAGATGGCAA GCCCTACCCTCGAAACACCTGGGCCCATTTCCAAGCCTACCAAGAGGGAAGGAAGGG TGGG
Restriction Sites:	NotI-NotI
ACCN:	NM_031904
Insert Size:	4000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_031904.2, NP_114110.1</u>
RefSeq Size:	3693 bp
RefSeq ORF:	1395 bp
Locus ID:	83786
UniProt ID:	<u>Q9BZ67</u>
Cytogenetics:	11q13.1
Domains:	B41

Gene Summary:

Promotes the cell surface stability of iRhom1/RHBDF1 and iRhom2/RHBDF2 and prevents their degradation via the endolysosomal pathway. By acting on iRhoms, involved in ADAM17-mediated shedding of TNF, amphiregulin/AREG, HBEGF and TGFA from the cell surface (PubMed:29897333, PubMed:29897336). Negatively regulates Wnt signaling, possibly by antagonizing the recruitment of AXIN1 to LRP6 (PubMed:19572019).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).